



Power Relay F

TE Internal #: 1-1414167-0

General Purpose Power Relay, DC, Monostable, 1 Form C SPDT-CO, 20 A Contact Rating, 24 VDC Coil Voltage, 24 VDC Contact Voltage, Power Relay F

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Relays & Contactors > Electromechanical Relays



Relay & Contactor Type: **General Purpose Power Relay**

Current Type: **DC**

Coil Magnetic System: **Monostable**

Contact Arrangement: **1 Form C SPDT-CO**

Contact Current Rating: **20 A**

Features

Product Type Features

Relay & Contactor Type	General Purpose Power Relay
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Configuration Features

Coil Special Features	Diode (Cathode 86)
Contact Arrangement	1 Form C SPDT-CO

Electrical Characteristics

Contact Switching Load (Min)	1000mA @ 5VDC
Contact Limiting Short-Time Current	240 A
Contact Limiting Making Current	120 A
Coil Resistance	268 Ω
Contact Limiting Continuous Current	60 A
Contact Limiting Breaking Current	20 A
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Current Rating	20 A
Coil Voltage Rating	24 VDC
Contact Voltage Rating	24 VDC
Coil Power Rating DC	2.1 W
Insulation Initial Dielectric Between Contacts & Coil	500 Vrms

Body Features



Product Weight	35 g[1.2 oz]
Enclosure Type	Dust Protected

Contact Features

Contact Material	Silver Alloy
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Termination Features

Main Termination & Connection Type	Quick Connect Terminals
Coil Termination & Connection Type	Quick Connect Terminals

Mechanical Attachment

Product Mount Type	Socket Mount
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Dimensions

Product Width	25.9 mm[1.02 in]
Product Length	25.9 mm[1.02 in]
Product Height	24.9 mm[.98 in]

Usage Conditions

Environmental Category of Protection	RTI
Environmental Ambient Temperature (Max)	125 °C[257 °F]

Operation/Application

Current Type	DC
Coil Magnetic System	Monostable

Other

Contact Current Class	30 – 50 A
Environmental Ambient Temperature Class	105 – 125 °C
Height Class (Mechanical)	20 – 25 mm
Length Class (Mechanical)	25 – 30 mm
Width Class (Mechanical)	25 – 30 mm

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	




Current ECHA Candidate List: JAN 2025  
(247)  
Candidate List Declared Against: JAN 2025  
(247)  
SVHC > Threshold:  
Pb (92.5% in 30922620965)  
**Article Safe Usage Statements:**  
Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability


Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>


Compatible Parts




TE Part # 8-1904049-9  
[V23134A0007X936-EV-850](#)




TE Part # 1904056-2  
[V23134A0007X936-EV-441](#)



TE Part # 1-1904045-1  
[V23333Z0001A007-EV-100](#)



TE Part # 4-1904049-7  
[V23134A0007X942-EV-590](#)

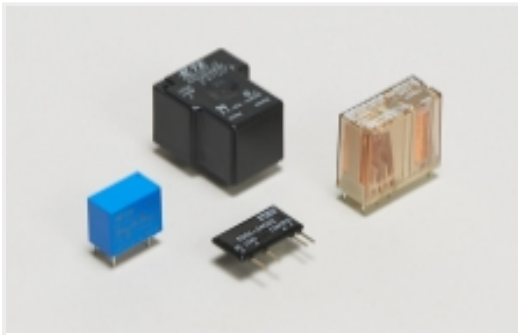


TE Part # 2383369-1  
[V23136A0103X151-SZ-CBOX](#)

Also in the Series | [Power Relay F](#)



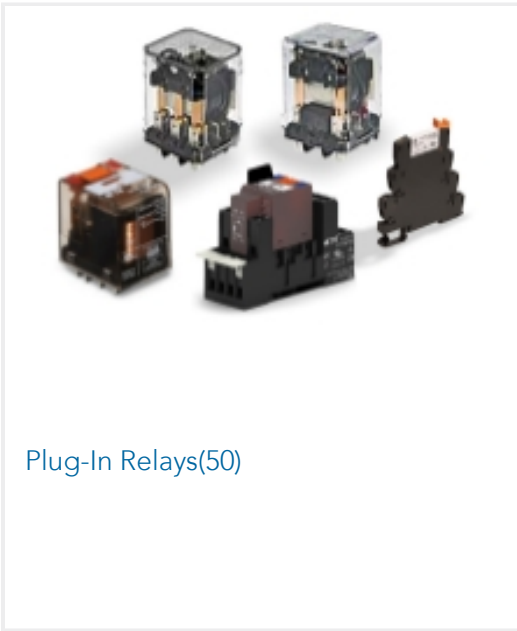
Automotive Relays(57)



General Purpose Power Relays(57)



PCB Relays(7)



Plug-In Relays(50)

Customers Also Bought



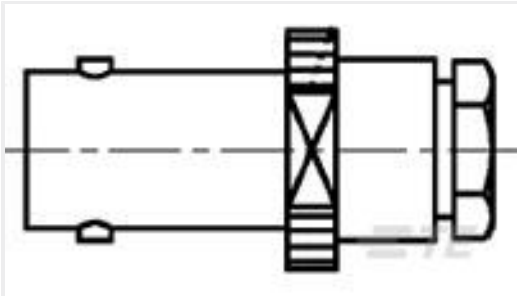
TE Part #1-2176507-2  
CJP 200W 4R7 5% Lead



TE Part #331467  
N PIDG RING 12-10



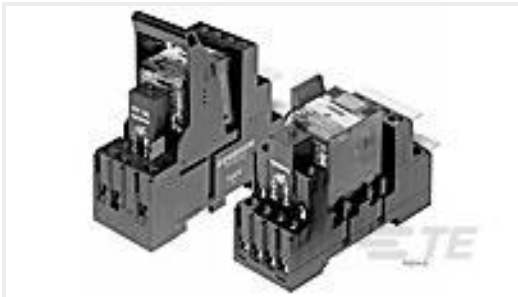
TE Part #2-87499-5  
14 MODIV HSG SR MRKD .100CL



TE Part #1-1478409-0  
BNC Str Jk PS 50Ohm Silver Pltd  
RG58C/U,



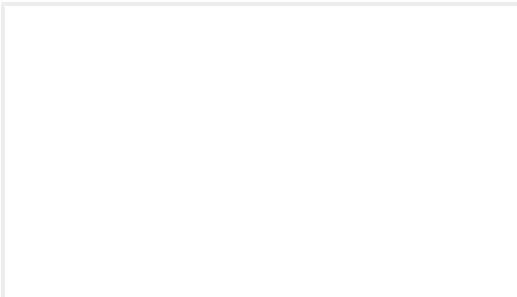
TE Part #1-1623930-0  
CFR25 5% 120R



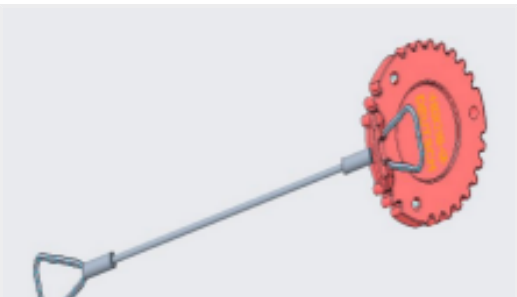
TE Part #8-1415074-1  
PT2S7LC4



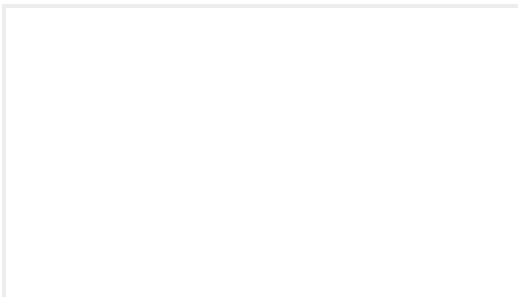
TE Part #CD02143001  
FLHTC0311-0.25-4



TE Part #K1155270-2  
Act.Protection ES-Evobus 24-63-021  
C4315



TE Part #HDC16-9-L47N  
DUST CAP, 9P, REC, GRY, LANYARD,  
HD10



TE Part #1108784-1  
MDL2-GR.O/U-3

Documents

Product Drawings

CAD Files

Customer View Model

ENG\_CVM\_1-1414167-0\_S00F.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_1-1414167-0\_S00F.3d\_stp.zip

English



Customer View Model

ENG\_CVM\_1-1414167-0\_S00F.2d\_dxf.zip

English

3D PDF

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

Automotive Relay Application Notes

English

Power Relay F4, Mini ISO, Plug-In

English

Product Specifications

Definitions General Purpose Relays

English